

# Model: C175 D5e (QSB7G5) Frequency: 50 Fuel Type: Diesel

### » Generator set data sheet



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Noise data sheet (Open/enclosed):     ND50-OS550 / ND50-CS550       Airflow data sheet:     AF50-550	
Airflow data sheet: AF50-550	
Derate data sheet (Open/enclosed): DD50-OS550 / DD50-CS550	
Transient data sheet: TD50-550	

				Prime	Prime kVA (kW) 160 (128)			
Fuel consumption				kVA (kV				
Ratings	175 (140)		160 (12					
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	3.0	5.4	7.3	9.1	2.7	5.0	6.8	8.4
L/hr	13.62	24.50	33.26	41.25	12.25	22.72	31.06	38.38

Engine	Standby rating	Prime rating	
Engine manufacturer	Cummins		
Engine model	QSB7G5		
Configuration	4 Cycle; In-line; 6 Cylinde	er Diesel	
Aspiration	Turbo Charged and Char	rge Air Cooled	
Gross engine power output, kWm	213	182	
BMEP at set rated load, kPa	2537	2172	
Bore, mm	107		
Stroke, mm	124		
Rated speed, rpm	1500		
Piston speed, m/s	6.2		
Compression ratio	17.2:1		
Lube oil capacity, L	15.1-17.4		
Overspeed limit, rpm	1500+15%		
Regenerative power, kW	14		
Governor type	Electronic		
Starting voltage	12V Volts DC		
Fuel flow			
Maximum fuel flow, L/hr	106		
Maximum fuel inlet restriction, mm Hg	127-254		
Maximum fuel inlet temperature (°C)	71		
Air			
Combustion air, m <sup>3</sup> /min	12.72	12.30	
Maximum air cleaner restriction, kPa	3.7-6.2	ŀ	

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Exhaust	Standby rating	Prime rating
Exhaust gas flow at set rated load, m <sup>3</sup> /min	35.82	34.14
Exhaust gas temperature, °C	561	544
Maximum exhaust back pressure, kPa	10.2	· · · ·
Standard set-mounted radiator cooling		
Ambient design, °C	50	
Fan Ioad, KW <sub>m</sub>	6.8	
Coolant capacity (with radiator), L	30.2	
Cooling system air flow, m3/sec @ 12.7mmH2O	5.91	
Total heat rejection, BTU/min	6516	5825
Maximum cooling air flow static restriction mmH2O	8.12	

## Open set derating factors kVA (kW)

Note: Standard open genset options running at 400V, 150m above sea level. For enclosed product derates, please refer to datasheet - DD50-CS550.

	27℃	40°C	45℃	50°C	55 °C
Standby	175 (140)	170 (136)	164.9 (131.9)	159.8 (127.8)	154.8 (123.8)
Prime	160 (128)	156 (124.8)	152.3 (121.8)	146.6 (117.3)	141.9 (113.5)

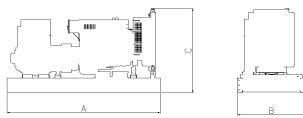
Weights*	Open	Enclosed
Unit dry weight kgs	1546	2557
Unit wet weight kgs	1572	3160

\* Weights represent a set with standard features. See outline drawing for weights of other configurations

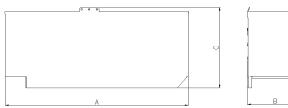
Dimensions	Length	Width	Height
Standard open set dimensions	2656	1100	1658
Enclosed set standard dimensions	3900	1100	2246

## **Genset outline**

#### Open set



#### Enclosed set



Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

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### **Alternator data**

Feature code	Connection <sup>1</sup>	Temp rise degrees C	Duty <sup>2</sup>	Alternator	Voltage
B681-2	Wye, 3 Phase	163/125	S/P	UCI274F	380-415V
B726-2	Wye, 3 Phase	125/105	S/P	UCI274G	380-440V
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

## **Ratings definitions**

Emergency Standby	Limited-Time running	Prime Power (PRP)	Base Load (Continuous)
Power (ESP)	Power (LTP):		Power (COP)
	Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.	varying electrical load for unlimited hours. Prime Power	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

# Formulas for calculating full load currents:

Three	nhase	output
THEE	phase	output

Single phase output

kWx1000 Voltagex1. 73x0.8 kWxSinglePhaseFactorx1000 Voltage

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